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basic imagery interpretation report

Feodosiya Probable ASW Checkout Facility and Feodosiya Naval Missile Test Facility (S)

MISSILE RANGES: NAVAL-LAUNCHED FACILITIES

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ABSTRACT

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- This map shows the Feodosiya Naval Base and surrounding area in Crimea. Key features include:
- Feodosiya Naval Base and Ship Repair Yard:** Located in the upper right, featuring a dry dock, piers, and various numbered points (34, 35, 36, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 55).
 - Feodosiya Probable ASW Checkout Facility:** Located near the base, featuring a lighthouse and a Mys II'i (220).
 - Feodosiya Torpedo and ASW Weapons Storage Facility:** Located near the base, featuring a lighthouse and a Mys Kiik-Atlama.
 - Feodosiya Naval Missile Test Facility:** Located in the lower left, near the coast.
 - Planerskoye:** A town located near the base.
 - Shevekova:** A town located near the base.
 - Orzhonikidze:** A town located near the base.
 - Geographical Features:** The map shows the coastline of Crimea, including the city of Feodosiya, the town of Shevekova, and the town of Orzhonikidze. The map also shows the location of the Feodosiya Naval Base and the Feodosiya Probable ASW Checkout Facility.

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INTRODUCTION

5. (S) The Feodosiya Probable ASW Checkout Facility (Figures 1 and 2) is on the eastern shore of the Crimean Peninsula in European USSR. The facility is approximately 15 nautical miles (nm) northeast of Feodosiya Naval Missile Test Facility (NMTF) and 0.1 nm east of Feodosiya Naval Base and Ship Repair Yard

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6. (TSR) The Feodosiya Probable ASW Checkout Facility is the assembly and checkout facility for ASW weapon systems; the facility is involved in test programs and some sea-based operational firings. ASW systems associated with the facility include the SS-N-14, SS-N-15, SS-NX-16 and probably the SUW-N-1/FRAS. Land-based launches of ASW systems undergoing testing or modification take place at Feodosiya NMTF which has been involved with the SS-N-14, SUW-N-1/FRAS and probable new ASW weapon systems.

7. (TSR) Feodosiya Probable ASW Checkout Facility along with Feodosiya NMTF and the Feodosiya Torpedo and ASW Weapons Storage Facility [] which has previously been reported¹) form an integrated unit within the Feodosiya Naval Trials and Testing Complex for the research, development, testing, and evaluation (RDT&E) of ASW weapon systems.

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8. (TSR) The flow of materials through these ASW-related installations to their designated launch platform is probably as follows: missiles and missile components are shipped by rail to the Feodosiya Naval Base and Ship Repair Yard where they are transported by road to nearby Feodosiya Probable ASW Checkout Facility or Feodosiya Torpedo and ASW Weapons Storage Facility; the assembled missile is then transported either to Feodosiya NMTF for land-based testing or to the Feodosiya Naval Base and Ship Repair Yard for sea-based testing (Figure 1).

BASIC DESCRIPTION

Feodosiya Probable ASW Checkout Facility

9. (TSR) The Feodosiya Probable ASW Checkout Facility (Figure 2) was constructed adjacent to the coastline and is comprised of two assembly/checkout areas (areas 1 and 2), an administration/support area, and a vehicle park and maintenance area. The facility is road served and is secured by a wall-type board fence.

Assembly/Checkout Areas

10. (TSR) Each assembly/checkout area is separately secured and contains a large assembly/checkout building. The buildings are on a stepped hillside with the lower original checkout building (building 1) nearer the coastline. Building 1 was constructed between 1962 and 1964 and is 61 by 22 meters. The second assembly/checkout building (building 2) is 61 by 18 meters. The building was not present in late 1964 but was structurally complete by mid-1965; however, no equipment was seen there until mid-1969.

11. (TSR) Each of the assembly/checkout buildings can be associated with one or more weapons systems. Canisters at building 1 have been identified for the SS-N-15 and SS-NX-16 systems, and it is likely that the SUW-N-1/FRAS and/or other unidentified systems are also present. Building 2, on the other hand, was apparently built solely for the SS-N-14 system. Though this segregation of system equipment has usually been maintained, there has been some intermixing. For example, the loading cradle and loading cradle adapter for the SS-N-14 have only been seen in assembly/checkout area 1.

12. (TSR) An understanding of the programs supported by assembly/checkout area 1 is complicated by several factors. The weapon containers seen here are typically cylindrical and the few distinguishing features cannot be seen sufficiently on most imagery. Netting is used sporadically, but an even more effective cover is provided by a row of trees along the fence where the canisters are stored. In addition, canvas and pieces of wood are frequently on top of these canisters when they are at Feodosiya Torpedo and ASW Weapons Storage Facility. Table 1 lists the canisters seen in assembly/checkout area 1 in order of decreasing size, and Figure 3 shows some of the more distinctive ones.

13. (TSR) Nine to 15 assorted support vehicles are usually seen in area 1. Of particular interest are the two-element Cigar telemetry van, two dollies, and four transporters of three different types (Figures 3 and 4). The telemetry van has been present since at least August 1970 and is usually parked with four to eight van trucks and van trailers along the north side of assembly/checkout building 1. It is rarely, if ever, gone from this location.

Table 1. Weapons Canisters in Area 1
Feodosiya Probable ASW Checkout Facility
USSR

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L	Dimensions	Related Weapons System/Remarks
	(m) Diam	
		Prob SS-NX-16 (new canister)
		Prob SS-NX-16 (modified SA-4 canisters)
		[] bulbous end SS-N-15

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14. (TSR) A large heavily constructed dolly, [REDACTED] long, and a smaller dolly of lighter construction, [REDACTED] long (measurements do not include the tongue) have been seen in various locations of area 1. The dollies have not been observed carrying any missile components and, therefore, have not been identified functionally with any specific missile system(s).

15. (TSR) Two of the transporters are the same. Both were observed from at least August 1971 (possibly as early as April 1971) until at least late November 1977. By late January 1978, one moved to nearby Feodosiya Torpedo and ASW Weapons Storage Facility, then left. The trailer chassis is [REDACTED] long and [REDACTED] wide at the fifth wheel and rear fender, and a [REDACTED] wide ladder-like span connects the two. As is the case with the dollies, the transporters have been seen in different locations of area 1 but have never been observed loaded.

16. (TSR) The second type of transporter somewhat resembles an SA-5 canister transporter. In past years it was seen infrequently in area 1 and occasionally at Feodosiya NMTF. However, between early January 1979 and mid-May, this transporter was parked behind assembly/checkout building 2, and from late April until May, an SS-N-14 airframe and booster crates were observed on it.

17. (TSR) The configuration of the third type of transporter is unknown because a frame-supported canvas was covering the chassis. The canvas portion is [REDACTED] long by [REDACTED] meters wide with [REDACTED] of the transporter extending beyond the canvas. This transporter is discussed further under Feodosiya NMTF.

18. (TSR) Assembly/checkout area 2 supports the SS-N-14 program and aptly illustrates the interaction of Feodosiya Probable ASW Checkout Facility, Feodosiya NMTF, and Feodosiya Naval Base and Ship Repair Yard. Analysis of this program is easier than analyzing the programs supported by assembly/checkout area 1 because the components for the SS-N-14 are more readily identifiable, and it has had an obvious, land-based test program.

19. (TSR) Assembly/checkout building 2 became operational in early to mid-1969, just prior to the completion of the twin-tube SS-N-14 launcher at Feodosiya NMTF. The equipment identified in area 2 included a van truck with a van trailer in addition to the SS-N-14 missile crate, booster crate, and loading canister. An SS-N-3-type transporter, used to transport the loading canister, is usually parked near the overhead hoist or on the sod at the east end of building 2 (Figure 4).

20. [REDACTED] Land- and sea-based firings, both RDT&E and some operational, are supported from assembly/checkout area 2. Two missile-transfer operations for Krivak-I guided-missile frigates (FFGs) were observed from [REDACTED] Following the activity observed in 1978, [REDACTED]

21. [REDACTED] Land-based firings, which take place at Feodosiya NMTF, are also supported by assembly/checkout area 2. An opportune series of imagery covering the Feodosiya Probable ASW Checkout Facility, Feodosiya NMTF and Sevastopol Naval Base [REDACTED] indicates that the [REDACTED]

22. (TSR) On [REDACTED] at Feodosiya NMTF, the dolly normally seen near the SS-N-14 missile-ready tent was absent. An object on the rails leading from the tent to the twin-tube SS-N-14 launcher was probably the above-mentioned dolly with an SS-N-14 loading canister on it. A mobile crane was on the hardstand, and an SS-N-3 transporter also carrying a loading canister was alongside the road (Figure 5).

23. (TSR) An empty SS-N-3-type transporter was backed up to the open doors of assembly/checkout building [REDACTED] Rarely seen in this location, the transporter had probably just unloaded or was about to receive a loading canister. On the next usable coverage of Feodosiya NMTF of [REDACTED] the dolly was in its normal place, and a loading canister-sized object was beside it.

24. [REDACTED] The SS-N-14 launch occurred on [REDACTED] coverage of Feodosiya Probable ASW Checkout Facility showed the transporter parked by the overhead hoist, one of its more typical parking places.

25. [REDACTED] Several other facts support a land-based (as opposed to a sea-based) launch.

Administration/Support Area

27. (TSR) The administration/support area is comprised of approximately 20 buildings and several shed-type structures. A recent addition to this area was a single-story building constructed between June and November 1978. Over the years, a variety of equipment has been seen in the administration/support area including torpedoes, torpedo test devices, and transporters.

Vehicle Park and Maintenance Area

28. (TSR) The vehicle park and maintenance area is separately fenced and consists mainly of open storage parking, two vehicle parking garages, eight small vehicle sheds, and a grease rack for vehicle maintenance.

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Feodosiya NMTF

29. (TSR) At the Feodosiya NMTF, no new major areas have been constructed since July 1978.⁴ However, significant activity in addition to the SS-N-14 firing previously described has been observed.

30. (TSR) On [REDACTED] a new missile-ready tent was observed on the southwest side of the facility. Three days later, a transporter covered with canvas supported by a ribbed framework was seen at the facility for the first time. Neither had been present on the previous coverage of [REDACTED] undetermined activity took place at the SUW-N-1 launcher, and when the facility was next seen on [REDACTED] both the transporter and missile-ready tent were gone (Figure 6). The transporter was probably the one seen near assembly/checkout building 1 on [REDACTED] coverage of the Feodosiya Probable ASW Checkout Facility and has remained there during the reporting period.

31. (TSR) New electronics equipment which has been added to the Feodosiya NMTF includes a

probable computer van and a probable electronics van. The probable computer van was first seen in late July 1978 near the control building and was moved in late November to the southwest corner of the facility. The van is supported by two two-axle generators, a one-axle generator, and an unidentified van, possibly electronics related. Also in late November, a new hardstand was constructed west of the electronics control building, and the new possible electronics van that now occupies it was parked nearby (Figure 7).

32. Two canisters (Figure 7) have been lying in front of the control building since [REDACTED] They are [REDACTED] in diameter and have four sections; three sections are approximately [REDACTED] long, and one end section is [REDACTED] crate was near the canisters on [REDACTED] but it was gone by [REDACTED]

33. (TSR) In mid-March 1979, reworking of the ground around the previously existing, but incomplete, arch-roofed building was observed. This renewed construction after a long hiatus indicates that the building will probably be completed for use.

REFERENCES**IMAGERY**

(TSR) All applicable KEYHOLE imagery acquired from [REDACTED] for Feodosiya NMTF and [REDACTED] for Feodosiya Probable ASW Checkout Facility was used in the preparation of this report.

MAPS OR CHARTS

CTS. US Air Target Chart, Series 200, Sheet 0249-16, scale 1:200,000 (UNCLASSIFIED)

DOCUMENTS

1. DIA. [REDACTED] RDA-11/0003/78, *Feodosiya Torpedo & ASW Weapons Storage Facility*, Oct 78 (TOP SECRET [REDACTED])
2. NFAC/OWI. No 6182/78, *Weapons Intelligence Daily Review*, 18 Sep 78, 190023Z (TOP SECRET [REDACTED])
3. NFAC/OWI. [REDACTED] WI WIDR 78-177J, *Weapons Intelligence Daily Review*, 12 Sep 78 (TOP SECRET [REDACTED])
4. NPIC. [REDACTED] RCA-17/0004/78, *Feodosiya Naval Missile Test Facility (S)*, Jul 78 (TOP SECRET [REDACTED])

REQUIREMENT

COMIREX R01
Project 290003DR

(S) Comments and queries regarding this report are welcome. They may be directed to [REDACTED] Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [REDACTED]

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